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PHOTOGRAPHIC INTELLIGENCE REPORT

SMALL INDUSTRIES

RUSTAVI, USSR



3 MARCH 1958
RR-GP/DP-4-58

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CENTRAL INTELLIGENCE AGENCY

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PHOTOGRAPHIC INTELLIGENCE REPORT

SMALL INDUSTRIES

RUSTAVI, USSR

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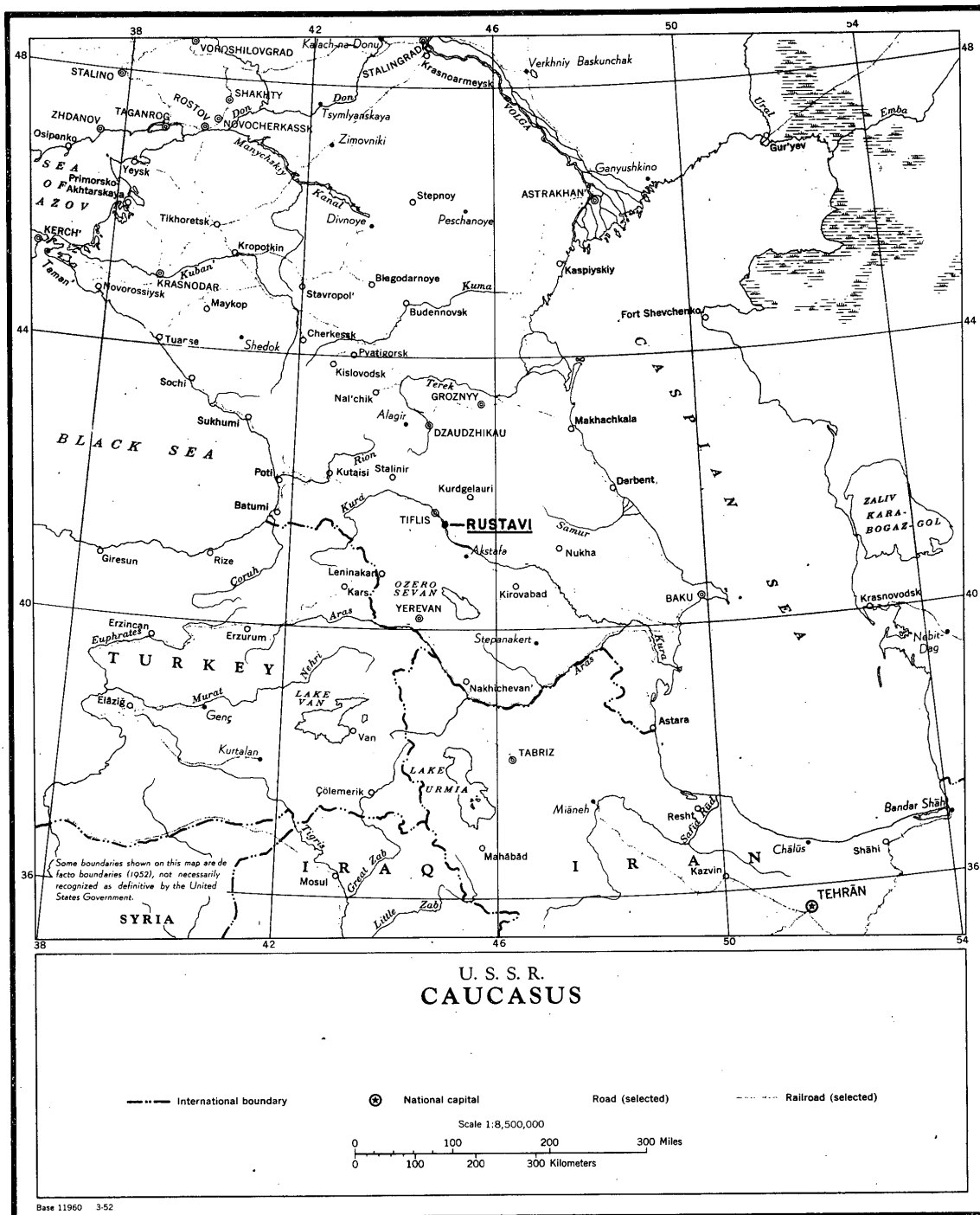
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PREFACE

This photo analysis of the small industries of Rustavi is based on small format photography [REDACTED]

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[REDACTED] and has been prepared by the Photo Intelligence Division of ORR .

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SMALL INDUSTRIES

RUSTAVI, USSR

Rustavi is an industrial city located approximately 20 miles southeast of Tbilisi (see orientation map). The city has several small industries located together in an area that lies between a hard-surface all-weather highway and the Tbilisi-Baku railroad (see maps of Rustavi and small industries at Rustavi). This double-track railroad merges into a classification yard consisting of about 13 tracks, from which spurs branch off to serve the small industries. For discussion purposes, this complex of small industries has been divided into the following units: a group of unidentified small industries, a concrete plant, a sawmill and lumber yard, and a possible food depot. Northeast of the railroad and parallel to it is another hard-surface all-weather highway. A possible school or college, also discussed in this report, is located between this highway and the railroad.

The group of unidentified small industries (see map of small industries) is located at the northwest end of the area, near the possible school or college. Industries typical of the area consist of one or two large probable fabrication or repair shops and two or three smaller buildings probably used for storehouses, tool sheds, or offices. The size of these industries and the spatial relationship of the buildings suggest the possibility that they are mechanical or electrical workshops and repair shops. All the large buildings are served by roads.

The sawmill and adjoining lumber yard (see map of small industries) are completely enclosed by a wall or fence. An improved service road, used to move lumber to and from the sawmill, runs through the center of this area in a northwest-southeast direction. Sawing the timber to the desired length,

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shape, etc., probably takes place in the three adjoining buildings lined up north of the service road and adjacent to the lumber yard. A blower-pipe or chute (dashed line, map of small industries) transports sawdust from the sawmill to a refuse pile located on the south side of the service road. Other buildings in this area are probably shops which produce and assemble doors, windows, and roof beams reportedly manufactured in this plant.

A possible food depot (see map of small industries), which has four walled enclosures, is located at the southeast end of the industrial area. These enclosures seem to be served by a network of roads having access to the hard-surface, all-weather highway to the southwest at two points. Three long, single-story buildings adjacent to a two-rail spur at the southeast end of the area are reported to be a bakery with probable storehouses. At the other end of the area, the walled enclosure southeast of the overhead gas pipe contains 14 closely-spaced, shedlike, flat-roofed buildings, probably used for food storage. Southeast of this enclosure is an unfenced area with a long, low structure, oriented northeast-southwest. This building, the roof of which appears to be the only portion above ground level, is probably used for cold storage.

The concrete plant (see map of small industries) located in the center of the complex of small industries is completely surrounded by a wall and occupies an area approximately 2,500 by 500 feet. The plant is served by a dirt or gravel road which enters from the southwest and a rail spur which enters from the easternmost corner of the installation. Three branches of the main spur serve the area and facilitate the loading and unloading of raw materials and finished products. The concrete plant is reported to produce raw concrete, and concrete plates, pipes, and blocks for building purposes within the Rustavi area.

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The following is a description of the possible flow of material through the plant (numbers in parentheses refer to location numbers on the map showing detailed plant layout and flow chart). Sand and stone are probably transported to the plant by rail. Raw materials storage (1) is located just north of the rail spur which enters on the east side of the plant. From storage, raw materials proceed along the rail spur to a point where they are apparently dumped into recessed bunkers (2). These bunkers may have an underground conveyor system which feeds the raw materials, consisting of stone and sand, to a two- or three-story building (6). The height of this structure suggests that it may be a stone-crushing building at which the stone is separated from the sand, crushed to the desired grade, and sent down a conveyor to a possible graded-stone distribution building (7). Here the graded stone is stored until needed at the concrete-mixing building (11), a structure approximately 3 stories high with the bottom floor completely open to allow trucks to enter and load, and with the upper stories probably housing the necessary machines, scales, and storage bins. The sand, stone, and cement to be used in the mixing process enter the mixing building by means of a conveyor system (9). Cement, which is probably stored in the elongated building (10) adjacent to the rail spur, is transported to the mixing building by means of the conveyor (9) that connects these two buildings. The mixed concrete, upon coming from the mixing building, is probably sent to construction sites throughout the Rustavi area as well as to the following departments within the concrete plant: possible concrete-pipe department, possible concrete-block department, and probable building block and plate department. The possible concrete-pipe department is located in a single-story structure of considerable length (4), reported to have been erected in 1949 for the manufacture of a new type of reinforced concrete pipe. There is open storage at the northwest end of this building. Hollow

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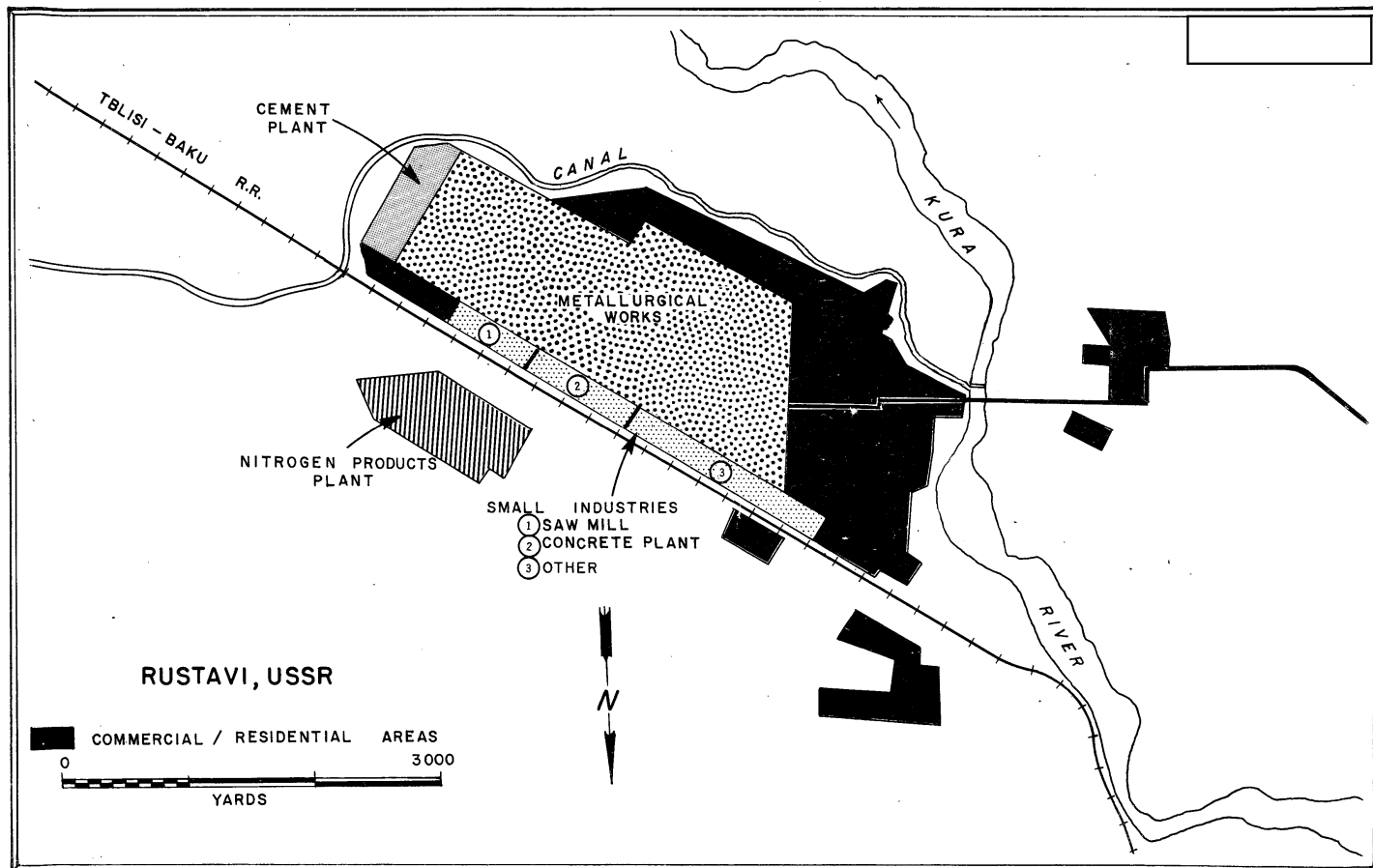
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concrete blocks, for construction purposes in the Rustavi area, may be produced at the possible concrete-block department, which is housed in four buildings (8). The probable building block and plate department, which is reported to manufacture special lightweight concrete blocks and plates, consists of four buildings and an extensive conveyor network. Two of these buildings are at least two stories high and appear to be quite similar to the concrete-mixing building. On the northeast side and connected to the main plant structure is a smaller building whose function may be crushing and/or mixing raw material for concrete to be used in the probable block and plate building (13). Raw material stored in two parallel rows (14) is probably lifted by the two cranes located on either side of the stock pile and transported to the probable block and plate building.

The possible school or college (see map of small industries) is located northeast of the Tbilisi-Baku railroad. It contains 21 one-story barracks-type buildings of similar design and probably of brick or concrete-block construction. It was reported in 1949 that these buildings, constructed a year earlier, were being used as a school or college. South of these buildings is a walled enclosure connected with the hard-surface, all-weather highway north of the railroad by a dirt or gravel road. This enclosure contains two buildings, the larger of which is a former airplane hangar. The presence of trucks and buses in the yard suggests that this building is probably now being used as a garage or repair shop. Just east of the walled enclosure is a probable fire tower.

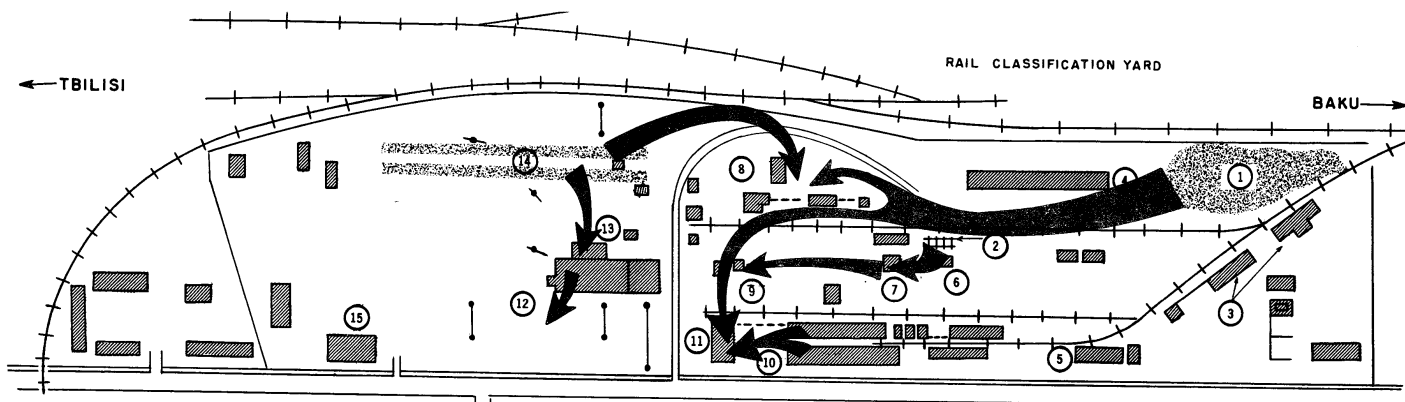
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CONCRETE PLANT AT RUSTAVI, USSR N 41° 33' E 45° 02'



LEGEND

- | | |
|--|---|
| 1. RAW MATERIAL STORAGE | 9. CONVEYOR SYSTEM |
| 2. RECESSED BUNKERS | 10. PROBABLE CEMENT-STORAGE BUILDING |
| 3. POSSIBLE WAREHOUSES | 11. CONCRETE-MIXING BUILDING |
| 4. POSSIBLE CONCRETE-PIPE DEPARTMENT | 12. OPEN STORAGE AREA |
| 5. POSSIBLE LABORATORY | 13. PROBABLE CONCRETE BUILDING-BLOCK AND PLATE BUILDING |
| 6. POSSIBLE STONE-CRUSHING BUILDING | 14. RAW MATERIAL STORAGE AREA |
| 7. POSSIBLE GRADED-STONE DISTRIBUTION BUILDING | 15. POSSIBLE ADMINISTRATION BUILDING |
| 8. POSSIBLE CONCRETE-BLOCK DEPARTMENT | |

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FLOW PATTERN

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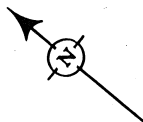
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SMALL INDUSTRIES AT RUSTAVI, USSR

N 41° 33' E 45° 02'



POSSIBLE SCHOOL
OR COLLEGE

OVERHEAD PIPES

TO NITROGEN PRODUCTS PLANT

FROM COKE OVENS

RAIL CLASSIFICATION YARD

BAKU

TBILISI

UNIDENTIFIED SMALL INDUSTRIES

CONCRETE PLANT

SAW MILL AND LUMBER YARD

POSSIBLE FOOD DEPOT

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